CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/ER/W.No.10/CSR.1/735d/CEMENT/2014-15

Date: 16.01.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. E. Rameshanand,** Contractor, Bangalore.
***NAME OF THE WORK**	:	Improvements to Roads, Drains and Covering Slab at Chamundeshwari Layout 6th Main Road Garage Road left side in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VPN/462/4/2014-15 Dated: 14.01.2015
SAMPLE ID	:	Cement – (Sample -3)
SAMPLE RECEIVED ON	:	14.01.2015
PERIOD OF TESTING	:	14.01.2015 to 16.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

AE-10

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/ER/W.No.10/CSR.1/735d/SAND-Gradation/2014-15 : 16.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads, Drains and Covering Slab at Chamundeshwari Layout 6th Main Road Garage Road left side in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VPN/462/4/2014-15 Dated: 14.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – (Sample -3)

Sample Received on : 14.01.2015

Date of Testing : 16.01.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.58	90-100	90-100	90-100	95-100
2.36	82.30	60-95	75-100	85-100	95-100
1.18	57.56	30-70	55-90	75-100	90-100
600 Micron	31.03	15-34	35-59	60-79	80-100
300 Micron	12.44	5-20	8-30	12-40	15-50
150 Micron	3.17	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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AE-10

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/ER/W.No.10/CSR.1/735d/AGG/GR/2014-15 : 16.01.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads, Drains and Covering Slab at Chamundeshwari Layout 6th Main Road Garage Road left side in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VPN/462/4/2014-15 Dated: 14.01.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) – (Sample -3)

Sample Received on : 14.01.2015

Date of Testing : 16.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.35	95-100	85-100
20	51.55	30-70	0-20
10	25.90	10-35	0-5
4.75	3.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/ER/W.No.10/STEEL/2014-15 16.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. E. Rameshanand,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads, Drains and Covering Slab at Chamundeshwari Layout 6th Main Road Garage Road left side in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VPN/462/4/2014-15 Dated: 14.01.2015
Date of Test	:	16.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.45	O.K	O.K

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VISHWANATH .C
Quality Manager

AE-10

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/ER/W.No.10/CSR.1/735d/CUBE/2014-15 18.02.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. E. Rameshanand,** Contractor, Bangalore.

*** Name of the work** : Improvements to Roads, Drains and Covering Slab at Chamundeshwari Layout 6th Main Road Garage Road left side in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : AEE/VPN/462/4/2014-15 Dated: 14.01.2015

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as o : 28^{th} day

Sample Received on : 21.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.01.2015	18.02.2015	8.357	506.4	22.51
2	21.01.2015	18.02.2015	8.258	493.2	21.92
3	21.01.2015	18.02.2015	8.476	517.8	23.01

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Quality Manager

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com